Lawrence Livermore National Laboratory

DOE NCSP Website

Nuclear Data Request Form



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- Nuclear Data Request Guidelines
- Beta version of Nuclear Data Request (NDR) Form
- Future plans
- Q & A





Nuclear Data Request Guidelines

Nuclear Data Request Guidelines

There are three principal requirements for a well-posed request:

- 1. An individual request should be **focused**. It should identify a single target nuclide (e.g., ²⁴¹Pu), a single reaction (e.g., n,fission), a well defined energy range (e.g., 0.8 10.0 Mev), and an accuracy requirement (e.g., ±5% from 0.8 4.0 Mev and ±10% from 4.0 10.0 Mev). A vague or generic request (e.g., All reactions for the Pu isotopes to within 1% from thermal to 10 Mev) cannot be addressed.
- An individual request should be justified. The requestor should describe the application area requiring the data and make a case that the existing data are inadequate for this application. Essentially the requestor is describing why the data are needed.
- 3. An individual request should document the impact. Generally, impact deals with matters such as safety, reliability, and cost. For example, if the requester can make a case that better knowledge of a neutron absorption cross section (to within specified accuracy limits) could lower the cost of transporting spent nuclear fuel by significant amounts, this would qualify as strong support for the request on the basis of cost impact.





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Nuclear Data Request form main page



U. S. Department of Energy Nuclear Criticality Safety Program

NCSP Home Page

NDR Request Form

Privacy & Legal Notice

The purpose of this webpage is to provide a mechanism for End Users to submit Nuclear Data Need Request for consideration/processing. Nuclear Data Need Request guidelines and an example links (including the Nuclear Data Need Request form) are also provided. If you have any questions regarding the process, please contact the NDAG Chairperson, R.D. McKnight at rdmcknight@anl.gov

- Submit NDR request
- Nuclear Data Need Request Status
- · Administrative access only
- NDAG Approval (NDAG Chair only)
- NCSP Manager Approval (DOE HQ only)
- Guidelines for a Nuclear Data Request
- Sample Nuclear Data Request





Nuclear Data Request Form

	NUCLEAR DATA REC	QUEST FORM	
	NOTICE: The End User must verify all int	formation is UNCLASSIFIED	
lease provide the following information:			
equestor Name: ast Name: [*]	First Name: [*]	Middle Name:	
rganization:[*] mail Address: [*]			
etype E-mail Address: [*]			
elephone No.: [*] I Required fields			
rget Nuclide: [*]			
eaction/Process: [*]			
cident Energy Range: [*]			
ordent Energy Range. []			
			REELEMENT .
equested Accuracy: [*]			





Nuclear Data Request Form – cont.

Application Area: [*]
Justification: [*]
oustineation. []
Impact:
The Requestor acknowledges all information is approved for public release. [*]
DC Name or Review and Release Number:
Submit Reset





Nuclear Data Request status page

Record Number	Date	Name	Organization	Target Nuclide	Reaction/Process	Incident Energy Range	Requested Accuracy	Status
103	2010-10-27	Lee, Chuck K	LLNL	Cm-244	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 5 Mev	Pending
104	2010-10-29	Lee, Chuck K	LLNL	Th-227	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
101	2010-10-27	Lee, Chuck K	LLNL	Np-237	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
105	2010-10-29	Lee, Chuck K	LLNL	Th-229	n,fission	Thermal - 100 KeV	±5% up to 1 keV ±10% 1 keV – 100 Kev	Pending
106	2010-10-29	Lee, Chuck K	LLNL	Th-234	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
107	2010-10-29	Lee, Chuck K	LLNL	Th-233	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
108	2010-10-29	Lee, Chuck K.	LLNL	Th-231	n,fission	Thermal - 1 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
109	2010-11-01	Lee, Chuck K	LLNL	Np-235	n,fission	Thermal - 2 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
110	2010-11-05	Lee, Chuck K	LLNL	Pu-240	n,fission	Thermal - 2 MeV	±5% up to 1 keV ±10% 1 keV – 2 Mev	Pending
102	2010-10-27	Lee, Chuck K	LLNL	Am-242	n,fission	Thermal - 0.1 MeV	±5% up to 1 keV ±10% 1 keV - 2 Mev	Approve





NDAG approval process page

PROCESS NUCLEAR DATA NEED REQUEST

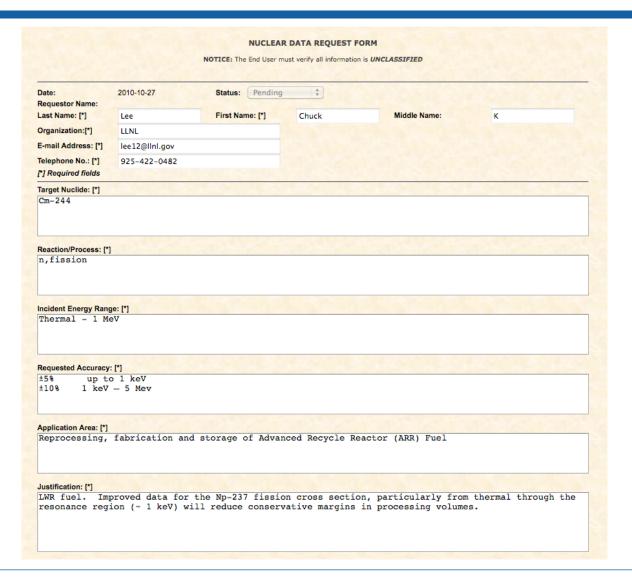
This NDAG home page is intended to provide NDAG chair to process Nuclear Data Need Request Form. For NDAG questions, please contact Dick McKnight at (630) 252-6088.

Approve Multiple NDR Forms





NDAG approval process form







NDAG approval process form – cont.

	quantify the improved throughput and cost reductions to be
chieved with uncertainty reduction in t	he reactivity of these processing streams.
NDAG Chairperson comments:[6000 chars max]	
1000 Management (0000 above and	
NCSP Manager comments:[6000 chars max]	
NDAG Section Only	
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Fracking/Unique Number: UO7LBSG2	
NDAG Actions: Pending \$	
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Concurrence (Type Name): O No New Measurement Needed	
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Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval	
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Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval NCSP Approval NCSP Manager Approval NDR:	public release. ✓I Agree
Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval NCSP Approval NCSP Manager Approval NDR: The Requestor acknowledges all information is approved for page 1.	
Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval NCSP Approval NCSP Manager Approval NDR: The Requestor acknowledges all information is approved for page 1.	oublic release.
Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval	





NCSP Manager approval process page

PROCESS NUCLEAR DATA NEED REQUEST

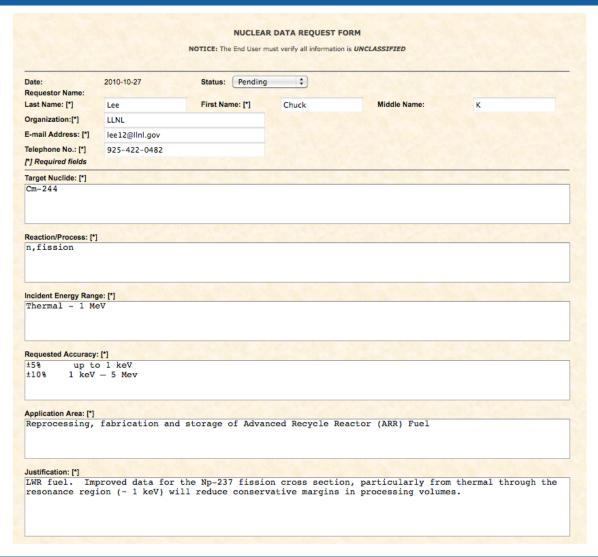
This NDR home page is intended to provide DOE NCSP Manager to process Nuclear Data Need Request Form. For NDR questions, please contact Nichole Ellis at (803) 381-3710 or ellis 9899@msn.com.

Approve Multiple NDR Forms





NCSP Manager approval process form







LLNL-PRES-470944

NCSP Manager approval process form – cont.

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nalyses have not yet been performed to	quantify the improved throughput and cost reductions to be
chieved with uncertainty reduction in	the reactivity of these processing streams.
NDAG Chairperson comments:[6000 chars max]	
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Tracking/Unique Number: UO7LBSG2 NDAG Actions: Pending Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval NCSP Approval NCSP Manager Approval NDR:	public release. ✓I Agree
Tracking/Unique Number: UO7LBSG2 NDAG Actions: Pending \$ Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval NCSP Approval NCSP Manager Approval NDR:	public release. ✓ I Agree Chuck K. Lee
Tracking/Unique Number: UO7LBSG2 NDAG Actions: Pending Concurrence (Type Name): No New Measurement Needed Recommend NDR Approval	





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Future plans for Nuclear Data Request form

- Continue to work with Dick McKnight and Nichole Ellis to further define Nuclear Data Request form
 - Enhance various levels of NCSP management approval processes
 - Provide some kind of on-demand pop-up text box description features
- Maintain records for all Nuclear Data Request experiments/data





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Questions or Suggestions?

Dick McKnight

POC for Comments/Suggestions to Nuclear Data Request form/process

Phone: 603-252-6088

Email: rdmcknight@anl.gov

Chuck K. Lee

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